



Battery box Exide Sonnenschein 24V 200Ah C20

Protection mode:

Type of protection: II 2G Ex e IIC T6 Gb
 Class of temperature: T6
 Protection degree: IP43
 Ambient Temp : -20/+50°C
 Zones : 1-2

Description:

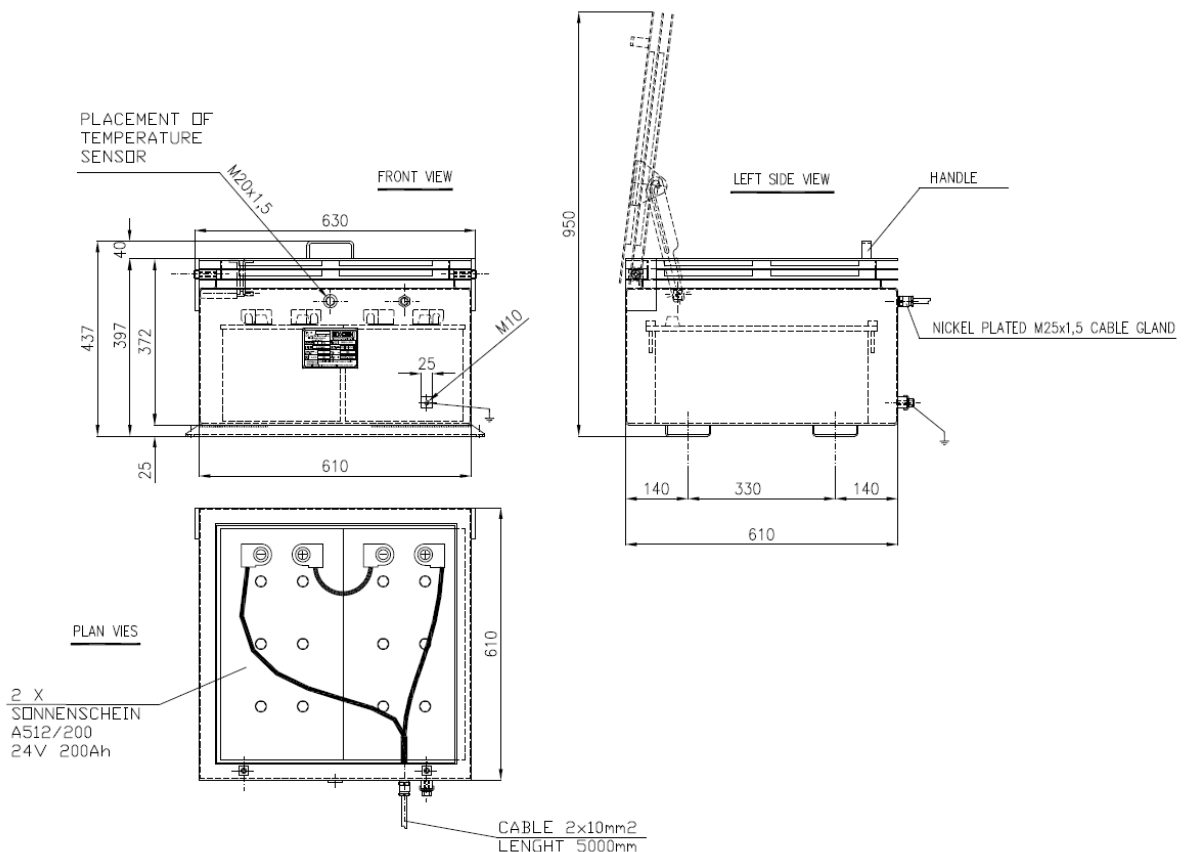
ATEX 2G Ex e Battery including 2 x EXIDE SONNENSCHIEN SOLAR S12/230 cells (approx. dimensions 610X610XH370mm). The battery box is manufactured in stainless steel AISI 316L with hinged lid. Position and size of cable entries to be discussed at design stage.

Electrical characteristics:
 24V 230Ah C100
 24V 200Ah C20

Weight :
 185kg



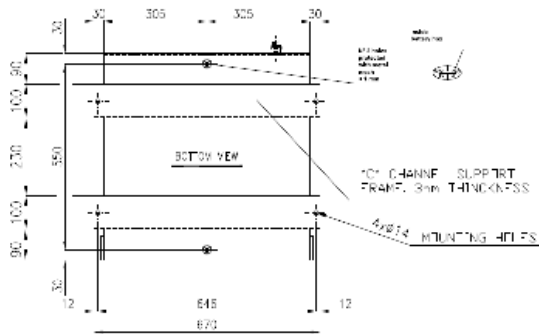
Technical drawing:





Battery box Exide Sonnenschein 24V 200Ah C20

Drawing : (Bottom view)



Technical data :

Type	Part number	Nom. voltage	Nominal capacity C_{100} , 1.80 Vpc 20 °C Ah	Discharge current I_{100} A	Length (l) max. mm	Width (b/w) max. mm	Height up to top of cover (h1) max. mm	Height including connectors (h2) max. mm	Weight approx. kg	Terminal	Terminal position
S12/230 A	NGS0120230HS0CA	12	230	2.30	518	274	216	238	67.0	A-Terminal	3

Type	C_1 1.70 Vpc	C_5 1.70 Vpc	C_{10} 1.70 Vpc	C_{20} 1.75 Vpc	C_{100} 1.80 Vpc
S12/230 A	120	170	190	200	230

Gel-batteries can be used also in discharge-charging-mode (a cycle consists of a discharge and a re-charging).

Gel-solar batteries are optimized for cyclical application (additive to electrolyte: phosphoric acid, - increases the number of cycles).

The following numbers of cycles are specified acc. to IEC 896-2 (/3/)*:

SOLAR: 800 cycles

*) Discharge conditions acc. to IEC 896-2: 20° C, discharge for 3 h at a current of $I = 2.0 \cdot I_{10}$.

This is equivalent to a depth of discharge (DOD) of 60% C_{10} .

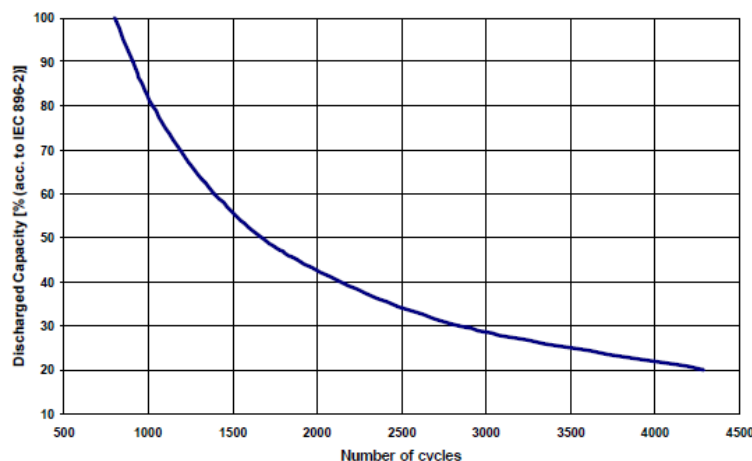


Fig. 14: SOLAR, Number of Cycles vs. Depth of Discharge (DOD)